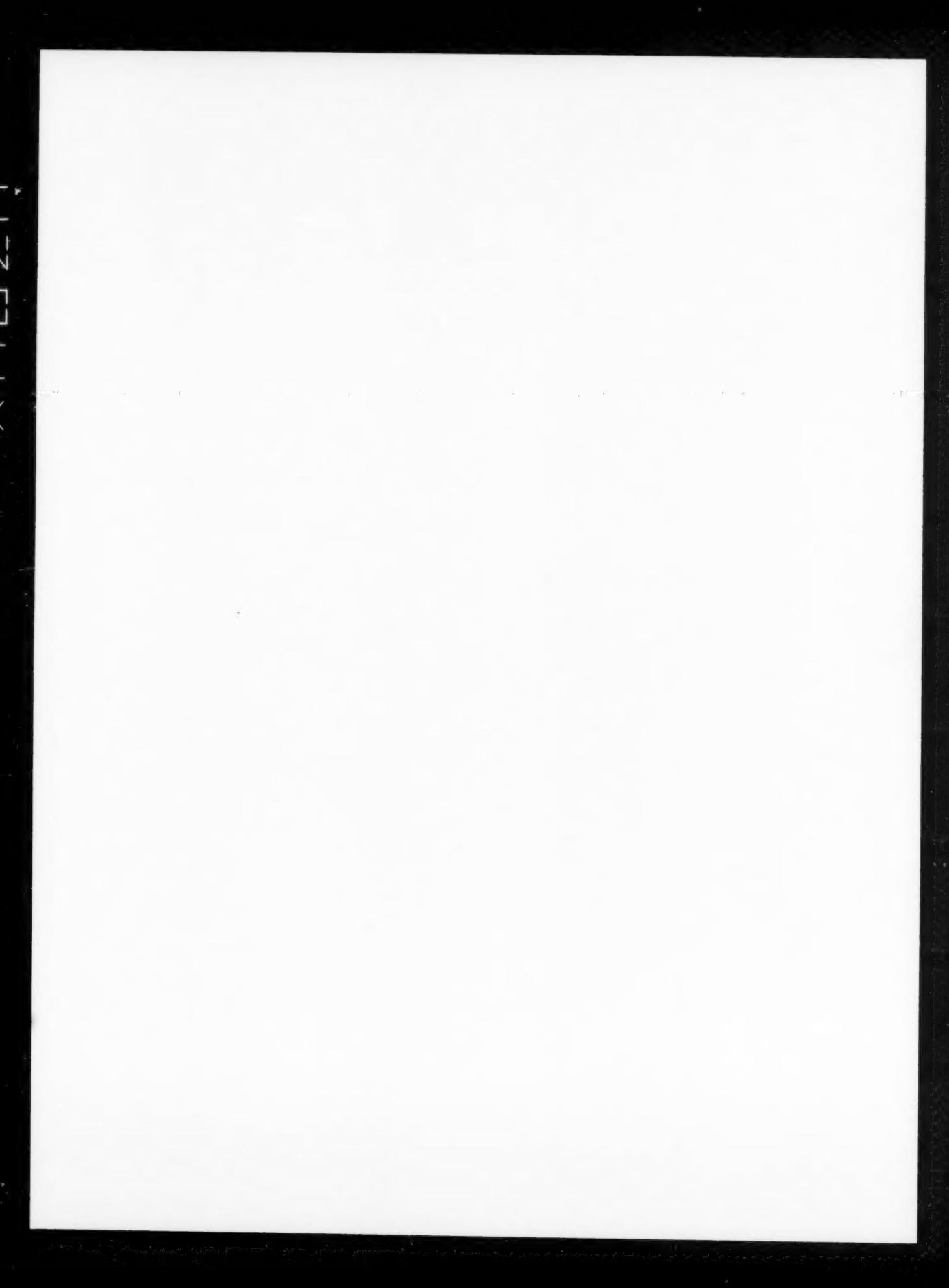


INDEX

MICROBIOLOGY

Volume 39, Numbers 1-6, 1970



MICROBIOLOGY
Volume 39, Numbers 1-6, 1970

(A translation of Mikrobiologiya)

A

- Adamova, N. P. - 229
 Agatov, P. A. - 882
 Agre, N. A. - 589
 Agre, N. S. - 79, 402, 671
 Andreeva, E. A. - 233, 783
 Andreeva, N. B. - 241
 Anikina, A. P. - 547
 Arkad'eva, G. E. - 339
 Ashmarin, I. P. - 542
 Askarova, S. A. - 202
 Astaf'eva, É. N. - 894
 Auérman, T. L. - 667
 Avakyan, A. A. - 554, 744, 883
 Azarova, G. G. - 758
 Azova, L. G. - 43

B

- Bagirov, V. I. - 606
 Balashova, V. V. - 298
 Ban'kovskaya, A. N. - 54
 Bazenkova, M. B. - 352
 Beker, M. E. - 630
 Bekhtereva, M. N. - 63, 258,
 335, 389, 517, 531, 675, 886
 Belyaev, S. S. - 303
 Belyaeva, M. I. - 912
 Belyakova, L. A. - 162, 467
 Belyanova, L. P. - 67
 Bezborodov, A. M. - 271
 Bezborodova, S. I. - 352, 643
 Bilai, V. I. - 252
 Blinov, N. O. - 736, 890
 Bogdanova, S. L. - 536
 Bolmyanskaya, E. V. - 682
 Bondar', A. I. - 520
 Bondarchuk, A. A. - 27
 Borisova, L. N. - 585
 Brundza, K. I. - 190
 Bylinkina, V. N. - 807

C

- Chebotarev, E. I. - 131
 Chel'nyi, A. A. - 944

- Cheremisinov, N. A. - 805
 Chermenskaya, T. S. - 271
 Cherni, N. E. - 298
 Chernyad'ev, I. I. - 17
 Chulkova, A. P. - 374, 525, 882
 Chunderova, A. I. - 774

D

- Danil'chik, N. I. - 909
 Danilova, M. V. - 969
 Dedyukhina, É. G. - 63
 Denisova, S. V. - 849
 Deshchits, L. A. - 925
 Diepin'sh, G. K. - 630
 Dimitrov, D. - 791
 Doman, N. G. - 17, 872
 Donets, A. T. - 258, 675, 886
 Dormidoshina, T. A. - 331
 Dorokhov, Yu. L. - 930
 Dorokhova, L. A. - 79, 589
 Dorosinskii, L. M. - 807
 Dubrovin, V. N. - 229
 Dvornikova, T. P. - 32

E

- Efimochkina, E. F. - 621
 Egorov, N. S. - 283, 581, 694
 Egorova, L. A. - 507
 Egorova, S. A. - 594, 736, 890
 Elinov, N. P. - 339
 El'-Registan, G. I. - 402
 Eremenko, V. V. - 6, 214
 Evlakhova, A. A. - 105
 Evreinova, T. N. - 671
 Ezepchuk, Yu. V. - 396

F

- Fateev, A. I. - 805
 Fateeva, M. V. - 162, 842
 Fedenko, E. P. - 94
 Fedorov, V. D. - 739
 Fedorova, T. A. - 821
 Feniksova, R. V. - 858

- Feofilova, E. P. - 266, 389
 Fetusova, I. V. - 536
 Filippova, M. S. - 539
 Fluer, F. S. - 396
 Fomichev, Yu. K. - 438

G

- Galkina, T. B. - 557
 Gamulya, G. D. - 686
 Gareishina, A. Z. - 912
 Gauze, G. F. - 797
 Gavrilov, V. Yu. - 536
 Gavrilova, N. N. - 276
 Gebgardt, A. G. - 380
 Generalova, T. G. - 667
 Gerasimova, N. M. - 531, 675,
 886
 Gesheva, R. L. - 121, 594
 Girdzijauskas, V. I. - 190
 Gol'braitkht, A. I. - 125
 Golovei, F. A. - 791
 Golub, E. I. - 116, 438, 921
 Gomenyuk, L. A. - 585
 Gorskaya, S. V. - 75
 Goryunova, S. V. - 343
 Grachev, Yu. P. - 719, 828
 Gracheva, I. M. - 276
 Grechushkina, N. N. - 554, 849
 Grigorov, V. S. - 758
 Groshev, V. V. - 248
 Gulanyan, S. A. - 225
 Gusev, M. V. - 43, 484, 752,
 802
 Guzhova, E. P. - 682

I

- Il'ina, L. D. - 385
 Il'ina, T. V. - 352, 643
 Ilyaledtinov, A. N. - 195
 Ilyasova, V. B. - 402
 Imshenetskii, A. A. - 23, 294,
 358, 410, 462, 464, 469, 502,
 603, 686, 701, 869
 Ivanov, I. D. - 626

Ivanova, N. P. - 58, 678
Ivkina, N. S. - 585
Ivoilov, V. S. - 43

J

Jakobson, U. A. - 184
Jankjavicius, K. K. - 190

K

Kachan, A. F. - 565
Kalakutskii, L. V. - 79, 589
Kaleya, É. Ya. - 630
Kamyshko, O. P. - 714
Karasevich, Yu. N. - 649, 917
Karavaiko, G. I. - 744, 833
Karnaughova, E. A. - 950
Kasumova, S. A. - 565
Kasymova, G. A. - 335
Kazak, A. A. - 517
Kazakov, G. A. - 842
Kazanskaya, T. B. - 369, 525, 882
Khanina, M. F. - 442
Khmel', I. A. - 241
Khokhlova, Yu. M. - 517, 731
Khudyakova, A. I. - 321
Kirikova, N. N. - 12
Kirillova, N. F. - 430
Kirsanov, A. V. - 758
Kiva, É. V. - 385
Kochkina, Z. M. - 112
Koleshko, O. I. - 909
Kolesnikov, A. A. - 48
Kolesnikova, I. G. - 517
Kolesnikova, N. A. - 75
Kondrat'eva, E. N. - 17, 484, 661
Kondrat'eva, T. F. - 23
Konev, Yu. E. - 714
Konoplev, E. G. - 450
Korenyako, A. I. - 731, 890
Korn, M. Ya. - 442, 944
Korotaev, A. I. - 636
Korzhenevskaya, T. G. - 752
Kosikov, K. V. - 950
Koskalenko, L. M. - 309
Kotelev, V. V. - 200, 258, 675, 886
Kovalenko, N. K. - 565
Kovalevich, L. S. - 276
Kovalevskaya, I. D. - 682
Kozlova, V. Kh. - 364, 389
Krasil'nikov, N. A. - 79, 107, 303, 402, 426, 562, 589, 731, 736, 890

Kretovich, V. L. - 166, 667
Kriss, A. E. - 131, 313, 778, 957
Kruglov, Yu. V. - 139
Krylov, I. F. - 554
Ksandopulo, G. B. - 690
Ksheminskaya, G. P. - 280
Kucheras, R. V. - 380
Kudryavtsev, V. I. - 467, 969
Kuimova, T. F. - 107, 426
Kukain, R. A. - 184
Kulatunga, R. A. - 939
Kulikova, A. N. - 512
Kuraishi, Kh. - 107, 426
Kurella, G. A. - 225
Kurilova, I. I. - 438
Kushnarev, V. M. - 761
Kuznetsov, V. D. - 786, 963
Kvasnikov, E. I. - 206, 565

L

Lanskaya, L. N. - 898
Lapotyshkina, A. I. - 953
Larikova, G. A. - 262
Laska, D. V. - 380
Lebedeva, E. K. - 237, 557
Levitov, M. M. - 75, 288
Li Kim Bang - 656
Lirova, S. A. - 783
Loginov, I. A. - 842
Loginova, L. G. - 36, 507, 682
Lopez, L. Erraiz - 294
Lushchik, T. A. - 828
L'vov, N. P. - 166
Lysenko, A. M. - 603
Lysenko, S. V. - 410, 603, 686, 869

M

Makhmudova, É. M. - 671
Maksimov, V. N. - 507
Maksimova, I. V. - 237, 557
Maksimova, R. A. - 576
Maksudov, T. U. - 343
Malofeeva, I. V. - 67, 661
Mamaev, A. V. - 795
Marchenko, I. V. - 736, 890
Mardashev, S. R. - 6, 214
Marshavina, Z. V. - 173
Martirosova, L. A. - 791
Meleshko, G. I. - 237, 557
Metelkin, A. I. - 634, 640

Metelkin, O. A. - 634
Milekhina, E. I. - 626
Milenushkin, Yu. I. - 455
Mil'ko, E. S. - 58, 678
Mirchink, T. G. - 327
Mironova, S. N. - 731
Mishustin, E. N. - 156
Misnik, A. G. - 446
Mitskevich, I. N. - 957
Mizovtsova, L. F. - 909
Morozova, T. N. - 694
Moskalenko, L. N. - 434
Moskovets, S. N. - 815
Musaev, Sh. M. - 202

N

Nadirova, I. M. - 162, 973
Naplekova, N. N. - 547
Nazarova, T. S. - 621
Nefelova, M. V. - 539
Nesterenko, O. A. - 565
Nesterova, G. F. - 600, 765
Nikitin, I. E. - 621
Nikitina, K. A. - 752
Nikitina, T. N. - 842
Nikolaev, A. Ya. - 6
Nikolaeva, S. A. - 71
Nikolyuk, V. F. - 202
Novikova, S. I. - 27
Novozhilova, M. I. - 778
Nozhevnikova, A. N. - 479, 872

O

Odoevskaya, N. S. - 349
Oparin, V. N. - 842
Orlova, G. G. - 438
Ostrovskii, N. I. - 54

P

Pakhomova, M. V. - 837
Pal'mova, N. P. - 576
Pankratov, A. Ya. - 758
Panosyan, A. K. - 173
Panov, V. P. - 758
Pariiskaya, A. N. - 294
Paromenskaya, L. N. - 139
Paushkin, Ya. M. - 554
Pavlova, I. V. - 98
Penzikova, G. A. - 288
Pershina, Z. G. - 98
Petina, T. A. - 791
Petrova, L. I. - 551

Pimenova, M. N. - 237, 557,
854
Pinevich, A. V. - 542
Piskunkova, N. F. - 854
Platonov, A. L. - 36
Podolyan, L. A. - 714
Polkhovskii, V. A. - 489
Poltorak, V. A. - 551
Popova, L. S. - 701
Popova, N. V. - 358, 502
Pozmogova, I. N. - 36
Proskuryakova, N. S. - 252

R

Rabotnova, I. L. - 233, 554, 783
Rakhleeva, E. E. - 626
Rapoport, I. A. - 585
Rautenshtein, Ya. I. - 112, 152,
309, 434, 594, 925
Razumovskii, P. N. - 200
Reshetnikova, V. N. - 921
Romanenko, V. I. - 617
Romanova, A. K. - 479, 872
Rovinskaya, A. Ya. - 572
Rozanova, E. P. - 321
Rubin, L. B. - 229
Rudaya, S. M. - 87
Rumba, A. A. - 898
Runov, V. I. - 202
Ryabinin, I. F. - 714
Ryabushko, T. A. - 413
Ryzhakova, V. G. - 858

S

Safonov, V. I. - 71
Sakharova, Z. V. - 783
Salmanov, M. A. - 606
Samoilenko, I. I. - 98
Samtsevich, S. A. - 179
Sanzhieva, É. U. - 711
Satdykov, Sh. I. - 562
Sazykin, Yu. O. - 799
Senyukov, V. M. - 612
Seregina, L. M. - 682
Sergeeva, L. N. - 517
Shalagina, A. I. - 54
Shanina, N. A. - 48, 837
Shavlovskii, G. M. - 280

Shcherbakov, L. A. - 450
Shcherbakova, E. Ya. - 898
Shenderova, L. V. - 484
Shestakov, S. V. - 248
Shetakhonova, N. M. - 827
Shevchenko, A. M. - 147
Shishenina, E. P. - 612
Shmygun, M. P. - 520
Shul'govskaya, E. M. - 233
Shulo, Sh. - 1
Shvetsova, N. N. - 864
Shvinka, Yu. É. - 229
Sidorenko, O. D. - 905
Silaev, A. B. - 551
Sivacheva, T. A. - 719
Skalozub, N. G. - 107
Skryabin, G. K. - 32
Smirnova, I. P. - 581
Smirnova, T. A. - 761
Smolyanskaya, A. Z. - 770
Soifer, V. N. - 930
Sokolov, A. A. - 426
Sokolova, I. P. - 339
Solov'eva, N. K. - 87
Solov'eva, Zh. V. - 94, 793
Sorokin, Yu. I. - 133, 220
Sotnikov, G. G. - 23, 626, 686,
869
Sukharevich, V. I. - 864
Surovtseva, É. G. - 697, 877
Suvorov, N. N. - 32
Sviridovskaya, L. N. - 385
Svishchuk, A. A. - 520

T

Taldykina, N. N. - 612
Tarasevich, V. F. - 413T
Tarvidas, I. I. - 190
Terent'ev, A. A. - 416
Tereshin, I. M. - 572
Toropova, E. G. - 694
Troshanov, É. P. - 795
Tsaplina, I. A. - 507, 682
Tsyganov, V. A. - 714, 864
Tubol'tsev, A. K. - 828
Tumanyan, M. A. - 98

V

Varivoda, M. I. - 280
Vasilenko, G. D. - 27

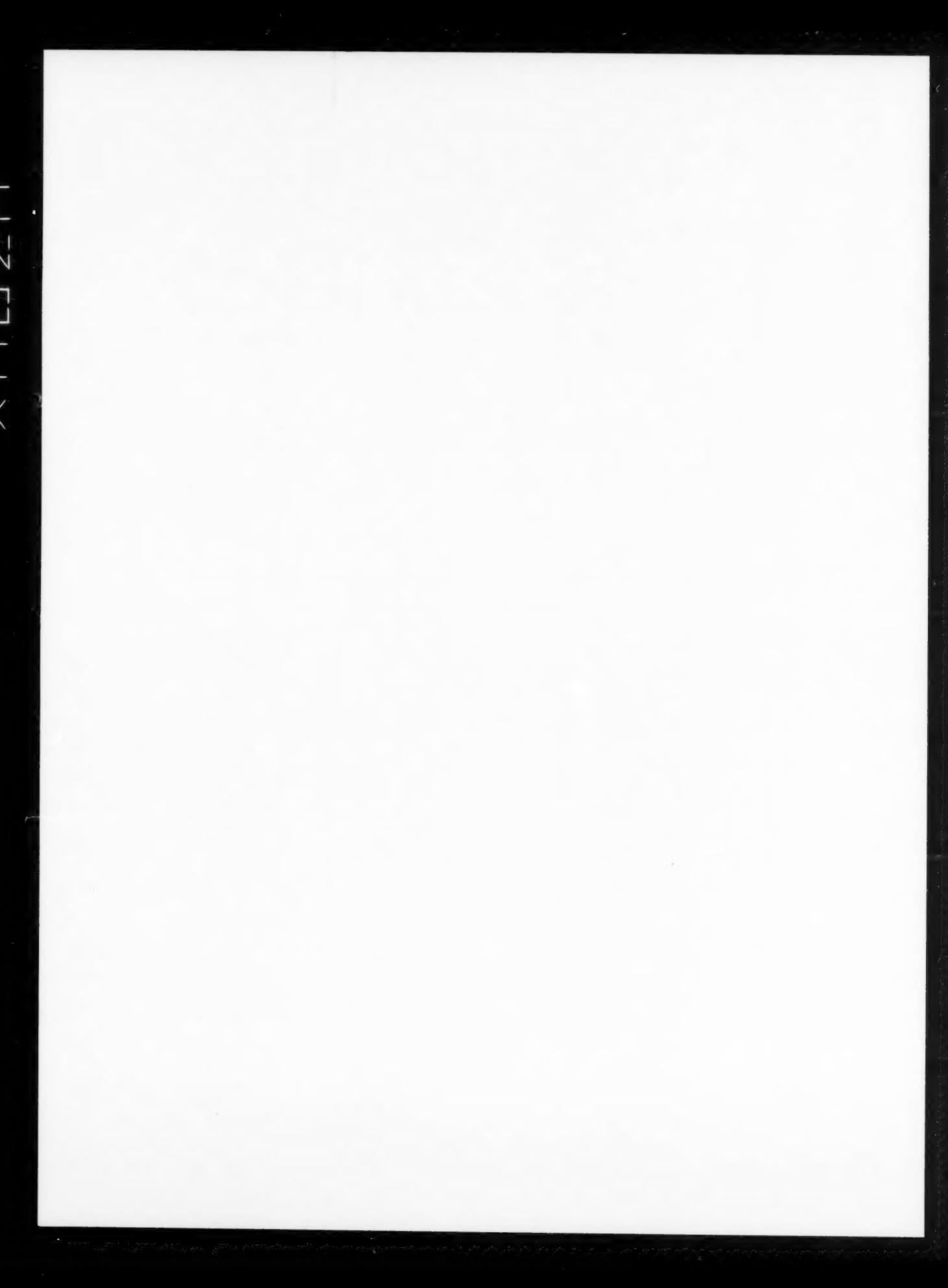
Vecher, A. S. - 512
Vedenina, I. Ya. - 479, 872
Veselov, I. Ya. - 276
Vinogradova, K. A. - 551
Vishnyakova, T. P. - 554
Vlasova, I. D. - 554
Vogrin, A. G. - 380
Voino, L. I. - 719
Volarovich, M. P. - 416
Voronina, E. G. - 105
Vostrov, I. S. - 369
Voznyakovskaya, Yu. M. - 474
Vuchetich, I. - 369
Vypiyach, A. N. - 283

Y

Yakobson, Yu. O. - 630
Yakovleva, E. P. - 864
Yangulova, I. V. - 786, 963
Yulbarisov, É. M. - 612
Yusupova, D. V. - 912

Z

Zaikina, A. I. - 953
Zaitseva, G. N. - 48, 837
Zakhvataeva, N. V. - 661
Zalashko, M. V. - 179
Zapadnaya, A. A. - 600, 765
Zaprometova, K. M. - 327
Zavarzin, G. A. - 148, 460
Zeile, M. - 630
Zelinka, Ya. - 1
Zeltin', R. P. - 494, 724
Zemlyakov, V. L. - 973
Zharikova, G. G. - 283
Zhdanova, N. N. - 520
Zhdan-Pushkina, S. M. - 542
Zhilina, T. N. - 707, 817
Zhukova, A. I. - 364
Zhukova, R. A. - 422
Zhunaeva, V. V. - 309
Zimenko, T. G. - 446
Zobnina, V. P. - 894
Zubets, T. P. - 774
Zvenigorodskii, V. I. - 116, 438
Zvyagintsev, D. G. - 143, 327



TABLES OF CONTENTS

MICROBIOLOGY

Volume 39, Numbers 1-6, 1970

(A translation of Mikrobiologiya)

Engl./Russ.

Volume 39, Number 1 January-February, 1970

The Role of Biotin in the Metabolism of <u>Streptomyces aureofaciens</u> - Sh. Shulo and Ya. Zelinka	1	5
Identification of <u>Pseudomonas sp.</u> and Influence of the Conditions of Culturing on the Asparaginase and Glutaminase Activity - S. R. Mardashev, V. V. Eremenko, and A. Ya. Nikolaev	6	11
Properties of Two Strains of <u>Pseudomonas</u> Utilizing One-Carbon Compounds - N. N. Kirikova	12	18
Assimilation of Acetate by <u>Rhodopseudomonas palustris</u> - I. I. Chernyad'ev, E. N. Kondrat'eva, and N. G. Doman	17	24
Content of ATP in the Cells of a Polyploid <u>Candida scottii</u> Strain - A. A. Imshenetskii, T. F. Kondrat'eva, and G. G. Sotnikov	23	30
Initial Stages of Sucrose Decomposition by <u>Cladosporium sp.</u> - S. I. Novikova, A. A. Bondarchuk, and G. D. Vasilenko	27	35
Enzymic Transformation of Tryptamine by Fungi - T. P. Dvornikova, G. K. Skryabin, and N. N. Suvorov	32	42
Thermogenesis by <u>Candida tropicalis</u> in Relation to Cultivation Conditions - A. L. Platonov, I. N. Pozmogova, and L. G. Loginova	36	47
Response to Molecular Oxygen in Some Members of the <u>Clostridium</u> Genus - L. G. Azova, M. V. Gusev, and V. S. Ivoilov	43	55
Investigation of the "Nuclear" Material from Cells of <u>Azotobacter vinelandii</u> - N. A. Shanina, A. A. Kolesnikov, and G. N. Zaitseva	48	60
On the Composition of Alkaloids Produced by <u>Claviceps purpurea</u> Tul. - A. I. Shalagina, A. N. Ban'kovskaya, and N. I. Ostrovskii	54	67
Effect of Medium Composition and Culture Conditions on Flavin Synthesis by <u>Mycobacterium Lacticolum</u> Strain 104 - E. S. Mil'ko and N. P. Ivanova	58	71
Oleic Acid as Carbon Source for Growth of <u>Blakeslea trispora</u> and for Biosynthesis of Carotenoids and Lipids - M. N. Bekhtereva and E. G. Dedyukhina	63	77
Effect of Carbon Source on the Amino Acid Content of Proteins of Photosynthetic Bacteria - I. V. Malofeeva and L. P. Belyanova	67	82
Soluble-Protein Complex Occurring in the <u>Clostridium perfringens</u> Cell - S. A. Nikolaeva and V. I. Safonov	71	87
Mycelium Composition of <u>Actinomyces streptomycini</u> Grown on a Synthetic Medium with Glucose or Starch - M. M. Levitov, N. A. Kolesnikova, and S. V. Gorskaya	75	91
A Study of the Morphology of Two Cultures Belonging to the Genus <u>Micropolyspora</u> - L. A. Dorokhova, N. S. Agre, L. V. Kalakutskii, and N. A. Krasil'nikov	79	95
Slimy Structures in Some Actinomycetes of the <u>Actinomyces hygroscopicus</u> Type - S. M. Rudaya and N. K. Solov'eva	87	101
Ultrafine Cell Structure of the Parent Strain and the Pigmented Mutant of <u>Rhodopseudomonas palustris</u> - Zh. V. Solov'eva and E. P. Fedenko	94	109
Modification of Properties of Staphylococci after Repeated Gamma Irradiation - M. A. Tumanyan, Z. G. Pershina, I. V. Pavlova, and I. I. Samoilenko	98	112

Staining of Fat Inclusions in Entomophthorous Fungi (Entomophthoraceae, Phycomycetes) with a Pigment from <u>Serratia marcescens</u> Bizio – A. A. Evlakhova and E. G. Voronina	105	118
On the Antiphage Substance Isolated from <u>Actinomyces globisporus</u> – Kh. Kuraishi, T. F. Kuimova, N. G. Skalozub, and N. A. Krasil'nikov	107	120
Infectivity of <u>Actinomyces streptomycini</u> Krass. Antiphage DNA for Protoplasts of this <u>Actinomyces</u> – Z. M. Kochkina and Ya. I. Rautenshtein	112	125
Inhibition of the Reproduction of rII Mutants of T-Even Phages in <u>Escherichia coli</u> Lysogenic for Phage 299 – E. I. Golub and V. I. Zvenigorodskii	116	129
Lysogeny of <u>Actinomyces leucophaeus</u> – R. L. Gesheva	121	134
Thionic Bacteria in the Oxidation of Sulfide Ores of Some Beds in East Kazakhstan – A. I. Gol'braitkh	125	139
Vertical Distribution of Heterotrophic Bacteria in Open Deep-Water Areas of Lake Baikal – A. E. Kriss and E. I. Chebotarev	131	146
Determination of the Activity of Heterotrophic Microflora in the Ocean Using C ¹⁴ -Containing Organic Matter – Yu. I. Sorokin	133	149
Detoxication of Simazine by Microscopic Algae – Yu. V. Kruglov and L. N. Paromenskaya	139	157
Growth of Microorganisms in Thin Capillaries and Films – D. G. Zvyagintsev	143	161
How to Facilitate Work with a Micromanipulator – A. M. Shevchenko	147	166
REVIEWS		
Hans G. Schlegel. Allgemeine Mikrobiologie – Reviewed by G. A. Zavarzin	148	168
EVENTS		
Semen Nikitovich Moskovets (On His 70th Birthday). :	150	170
Preparation of Highly Active and Phage-Resistant Entomopathogenic Bacteria – Ya. I. Rautenshtein	152	172
Third Congress Devoted to the Preservation of Fodder and to Grasslands – E. N. Mishustin	156	175
First International Conference on Culture Collections – L. A. Belyakova, I. M. Nadirova, and M. V. Fateeva	162	179
Vyacheslav Il'ich Lyubimov (Obituary) – V. L. Kretovich and N. P. L'vov	166	183

Volume 39, Number 2 March-April, 1970

Centenary of the Birth of Vladimir Il'ich Lenin (1870–1970)	167	189
Achievements of General and Applied Microbiology in Armenia during the Years of Soviet Power – A. K. Panosyan and Z. V. Marshavina	173	196
Microbiological Science in Belorussia during the Years of Soviet Power – S. A. Samtsevich and M. V. Zalashko	179	203
Main Direction in the Development of Microbiology in Soviet Latvia – R. A. Kukain and U. A. Jakobson	184	209
Microbiological Science in the Lithuanian SSR – V. I. Girdzijauskas, K. I. Brundza, I. I. Tarvidas, and K. K. Jankjavicius	190	217
Microbiology in Kazakhstan in the Soviet Era – A. N. Ilyaletdinov	195	223
Development of Microbiology in the Moldavian SSR – V. V. Kotelev and P. N. Razumovskii	200	229
The Development of Microbiology in Uzbekistan – S. A. Askarova, Sh. M. Musaev, V. F. Nikolyuk, and V. I. Runov	202	232
The Development of Microbiology in the Ukraine after the Great October Revolution – E. I. Kvasnikov	206	237
The Effects of pH, Aeration, and Temperature of the Histidinedecarboxylase Activity of <u>Micrococcus</u> Sp. N. – V. V. Eremenko and S. R. Mardashev	214	247

The Mechanism of Chemical and Biological Oxidation of Sodium, Calcium, and Iron Sulfides — Yu. I. Sorokin	220	253
Potentiometric Investigation of the Dynamics of the Photooxidation of Sulfide by Photosynthesizing Bacteria — S. A. Gulanyan and G. A. Kurella	225	259
The Kinetics of Photoinduced Transformations of Cytochromes in <u>Ectothiorhodospira shaposhnikovii</u> — L. B. Rubin, V. N. Dubrovin, N. P. Adamova, and Yu. É. Shvinka	229	264
Inhibition of the Growth of <u>Candida utilis</u> by H ⁺ and OH ⁻ Ions — E. A. Andreeva, E. M. Shulgovskaya, and I. L. Rabotnova	233	269
Dynamics of the Quantitative Changes in the Extracellular Organic Substances during Prolonged Culturing of <u>Chlorella</u> Sp. K — M. N. Pimenova, I. V. Maksimova, G. I. Meleshko, and E. K. Lebedeva	237	274
Kinetics of Oxygen Consumption by Cells of <u>Azotobacter vinelandii</u> in Batch and Continuous Cultivation — N. B. Andreeva and I. A. Khmel'	241	280
Regulation of Tricarboxylic Acid Cycle Enzyme Activity in <u>Bacillus brevis</u> G.-B — S. V. Shestakov and V. V. Groshev	248	288
Microbiological Detoxication of Dendrodochine — V. I. Bilai and N. S. Proskuryakova	252	293
Composition of the Lipids from Mycobacteria — A. T. Donets, V. V. Kotelev, and M. N. Bekhtereva	258	300
Effect of Ionizing Radiation on Composition of Yeast Lipids — G. A. Larikova	262	305
Conditions of Formation of Trisporic Acids in Combined Cultures of (+) and (-) Strains of <u>Blakeslea trispora</u> — E. P. Feofilova	266	309
Conditions of the Biosynthesis of Ubiquinone-8 and Vitamin K ₂ by <u>Serratia marcescens</u> — A. M. Bezborodov and T. S. Chermenskaya	271	316
Influence of the Temperature of Fermentation on the Formation of Higher Alcohols by Yeasts <u>Saccharomyces carlsbergensis</u> — I. M. Gracheva, I. Ya. Veselov, N. N. Gavrilova, and L. S. Kovalevich	276	322
Formation of Substantial Amounts of Riboflavin by Certain Species of Yeasts of the Genus <u>Debaryomyces</u> — G. M. Shavlovskii, G. P. Ksheminskaya, and M. I. Varivoda	280	327
Free Amino Acids and the Gramicidin S Content during the Germination of Spores of the R-Variant of <u>Bacillus brevis</u> — N. S. Egorov, A. N. Vypiyach, and G. G. Zharikova	283	331
Transamidinase Activity in Connection with Streptomycin Biosynthesis — G. A. Penzikova and M. M. Levitov	288	337
Experimental Production of Mutants of <u>Rhizobium meliloti</u> with Increased Activity — A. A. Imshenetskii, A. N. Pariiskaya, and L. Erraiz Lopez	294	343
Ultrastructure of <u>Gallionella filamenta</u> — V. V. Balashova and N. E. Cherni	298	348
Morphology and Development of <u>Caulobacter</u> — N. A. Krasil'nikov and S. S. Belyaev	303	352
An Electron-Microscopic Investigation of Actinophages of a Polylysogenic Culture of <u>Actinomyces sphaeroides</u> — Ya. I. Rautenstein, L. N. Moskalenko, and V. V. Zhunaeva	309	358
Ecological-Geographic Patterns in the Distribution of Heterotrophic Bacteria in the Atlantic Ocean — A. E. Kriss	313	362
Purple Bacteria in the Oil Strata of Apsheron Peninsula — E. P. Rozanova and A. I. Khudyakova	321	372
Satellite Fungi of Manganese-Oxidizing Bacteria — T. G. Mirchink, K. M. Zaprometova, and D. G. Zvyagintsev	327	379

Volume 39, Number 3 May-June, 1970

Effect of Ristomycin and Vancomycin on Plasma Membrane Permeability and P ³² Incorporation into Various Cell Fractions in <u>Staphylococcus aureus</u> 209-P — T. A. Dormidoshina	331	389
--	-----	-----

Intracellular Conversion Products of Glucose in <u>Actinomyces longissimus rameus</u>			
—G. A. Kasymova and M. N. Bektereva	335	394	
Biosynthesis of ^{14}C -Labeled Polysaccharides by Cells of <u>Candida tropicalis</u>			
—N. P. Elinov, I. P. Sokolova, and G. E. Arkad'eva	339	399	
Molybdenum Requirements of Certain Nitrogen-Fixing Blue-Green Algae			
—S. V. Goryunova and T. U. Maksudov	343	403	
The Use of Light Filters of a Wide Spectral Range in the Culturing of <u>Chlorella vulgaris</u>			
—N. S. Odoevskaya	349	410	
The Exonuclease of <u>Penicillium chrysogenum</u> —S. I. Bezborodova, M. B. Bazenkova, and T. V. Il'in	352	414	
Biosynthesis of Proteinase by <u>Aspergillus terricola</u> on Media with Organic Nitrogen Compounds—A. A. Imshenetskii and N. V. Popova	358	421	
Formation of Cholesterol Oxidase by Certain Microorganisms—A. I. Zhukova and V. Kh. Kozlova	364	428	
Searches for Producers of Dicarboxylic Amino Acids and Their Amides—I. Vuchetich, T. B. Kazanskaya, and I. S. Vostrov	369	434	
Conditions of Culturing <u>Aerobacter cloacae</u> Favorable for the Formation of Valine —A. P. Chulkova	374	440	
The Interrelationship of Nitrogen Metabolism with the Cobamide Synthetic Ability of <u>Propionibacterium shermanii</u> —A. G. Gebhardt, R. V. Kucheras, D. V. Laska, and A. G. Vogrin	380	447	
Fat Biosynthesis by Yeast-like Fungi of the Genus <u>Trichosporon</u> in Submerged Culturing—L. D. Il'in, É. V. Kiva, and L. N. Sviridovskaya	385	453	
Influence of Certain Stimulators and Pyridine Derivatives on Carotenoid Biosynthesis by the (-) Strain of <u>Blakeslea trispora</u> —E. P. Feofilova, M. N. Bektereva, and Yu. I. Kozlova	389	457	
Formation of Lecithinase by <u>Bacillus cereus</u> —F. S. Fluer and Yu. V. Ezepchuk	396	465	
Infrared Spectra of Intact Cells of <u>Actinomyces</u> , <u>Proactinomyces</u> , and <u>Mycobacterium</u> —N. A. Krasil'nikov, G. I. El'-Registan, V. B. Ilyasova, and N. S. Agre	402	471	
The Effect of High Vacuum on Oxidative Processes of <u>Sarcina flava</u> and <u>Bacillus simplex</u> —A. A. Imshenetskii and S. V. Lysenko	410	480	
The Use of Serological Reactions to Compare the Amylase from <u>Actinomyces aureofaciens</u> with Amylases of Different Origins—T. A. Ryabushko and V. F. Tarasevich	413	484	
New Forms of Microorganisms and Their Distribution in Natural Peats			
—M. P. Volarovich and A. A. Terent'ev	416	488	
Anastomoses in <u>Actinomyces</u> sp. nov.—R. A. Zhukova	422	495	
Morphological Changes of Certain Microorganisms Effected by Antibiotic 81A Isolated from <u>Actinomyces globisporus</u> —Kh. Kuraishi, T. F. Kuimova, A. A. Sokolov, and N. A. Krasil'nikov	426	499	
Difference in Pigment Complexes of <u>Proactinomyces</u> , <u>Mycobacterium</u> , and <u>Mycococcus</u> of the Red-Orange Group—N. F. Kirillova	430	503	
Defective Lysogeny among Certain Cultures of <u>Rhizobium meliloti</u> —Ya. I. Raumenshtein and L. N. Moskalenko	434	507	
Selective Inhibition of Cytokinesis as a Result of Lysogenization—E. I. Golub, V. I. Zvenigorodskii, I. I. Kurilova, G. G. Orlova, and Yu. K. Fomichev	438	512	
Tetracycline Binding by Sensitive and Resistant <u>Escherichia coli</u> Cells Studied by Luminescence Microscopy—M. Ya. Korn and M. F. Khanina	442	517	
Effect of Ground-Water Level on Ammonification and Nitrification in Peat Bog Soils			
—T. G. Zimenko and A. G. Misnik	446	522	
Effect of Various Enzyme Preparations on Microbiological and Biochemical Properties of Silage—E. G. Konoplev and L. A. Shecherbakov	450	527	
I. I. Mechnikov (E. Metchnikoff) and His Place in the History of Microbiology (to His 125th Anniversary)—Yu. I. Milenushkin	455	533	

REVIEWS

E. S. Smirnov, Taxonomic Analysis—Reviewed by G. A. Zavarzin	460	537
Peter Hepple (editor), Microbiology—Reviewed by A. A. Imshenetskii	462	538

CHRONICLES

Second Bulgarian Microbiological Congress—A. A. Imshenetskii	464	540
Work of the Dutch Collection of Fungous Cultures—V. I. Kudryavtsev and L. A. Belyakova	467	542
Third Global Impact of Applied Microbiology—A. A. Imshenetskii	469	543
Symposium on Methods of Microbiological Stimulation of Plant Growth and Development —Yu. M. Voznyakovskaya	474	547
Leonilla Dmitrievna Shturm.	477	550

Investigation of Products of Short-Term Chemosynthesis and Certain Enzymes

of the Reductive Pentose Phosphate Cycle in Hydrogen Bacteria, <i>Hydrogenomonas eutropha</i> — A. K. Romanova, I. Ya. Vedenina, and A. N. Nozhevnikova	479	557
---	-----	-----

Influence of the Oxygen Concentration on the Growth and Survival of Photosyn- thesizing Bacteria — M. V. Gusev, L. V. Shenderova, and E. N. Kondrat'eva	484	562
--	-----	-----

Lecithinase Activity of <i>Bacillus cereus</i> Strains Isolated from Various Natural Sources — V. A. Polkhovskii	489	567
---	-----	-----

Influence of the Nutrient Medium on the Biosynthesis of Cellulolytic Enzymes of the Thermotolerant Fungus <i>Aspergillus terreus</i> — R. P. Zeltin'	494	574
---	-----	-----

Influence of Carbohydrates on Proteinase Biosynthesis by <i>Aspergillus terricola</i> under Conditions of Submerged Culturing — A. A. Imshenetskii and N. V. Popova .	502	583
--	-----	-----

Activation of Growth and Proteinase Biosynthesis in the Thermophilic Bacterium <i>Bacillus brevis</i> — L. G. Loginova, L. A. Egorova, I. A. Tsaplina, and V. N. Maksimov	507	588
---	-----	-----

Influence of Citral on Carotenoid Synthesis by <i>Rhodotorula gracilis</i> — A. S. Vecher and A. N. Kulikova	512	594
---	-----	-----

Qualitative Composition of the Pigments of Fluorescent Bacteria Producing Keto Acids and Belonging to the Genus <i>Pseudomonas</i> — I. G. Kolesnikova, M. N. Bekhtereva, Yu. M. Khokhlova, L. N. Sergeeva, and A. A. Kazak	517	599
---	-----	-----

The Protective Effect of the Pigment Isolated from the Fungus <i>Cladosporium</i> sp. — N. N. Zhdanova, A. A. Svishchuk, M. P. Shmygun, and A. I. Bondar'	520	603
--	-----	-----

Metabolism in <i>Aerobacter cloacae</i> on Media Stimulating Acetoin Formation — A. P. Chulkova and T. B. Kazanskaya	525	608
---	-----	-----

Formation of Lipids and Their Composition in <i>Blakeslea trispora</i> in the Presence of Hydrocarbons in the Medium — N. M. Gerasimova and M. N. Bekhtereva	531	616
---	-----	-----

Induction of Colicin E ₁ Synthesis by Bruneomycin and N-methyl-N'-nitro-N-Nitroso- guanidine — S. L. Bogdanova, I. V. Fetusova, and V. Yu. Gavrilov	536	622
---	-----	-----

Some Enzymatic Properties of Producers of the Actinomycin Complex of Aurantine — M. V. Nefelova and M. S. Filippova	539	626
--	-----	-----

Relationship between the Antibacterial Activity, Sorbability, and Reversibility of the Action of Histones — I. P. Ashmarin, S. M. Zhdan-Pushkina, and A. V. Pinevich	542	629
--	-----	-----

Assimilation of Boron by Cellulose-Decomposing Microorganisms — N. N. Napleкова and A. P. Anikina	547	634
--	-----	-----

Study of the Luminescent Substances from <i>Actinomyces griseocastaneus</i> Krass — V. A. Poltorak, K. A. Vinogradova, L. I. Petrova, and A. B. Silaev	551	638
---	-----	-----

Inhibition of the Growth of Microorganisms on Hydrocarbon Media by Quaternary Ammonium Salts — I. L. Rabotnova, Ya. M. Paushkin, T. P. Vishnyakova,			
N. N. Grechushkina, Z. A. Avakyan, I. D. Vlasova, and I. F. Krylov	554	642	
Microflora in a Culture of <u>Chlorella</u> K with Prolonged Cultivation in a Rotation-Type Apparatus with Direct Medium Return — M. N. Pimenova, I. V. Maksimova,			
G. I. Meleshko, E. K. Lebedeva, and T. B. Galkina	557	645	
Bacteria of Termites' Intestines — N. A. Krasil'nikov and Sh. I. Satdykov	562	651	
Serological Identification of the Lactic Acid Bacterium <u>Thermobacterium</u> Orla-Jensen — E. I. Kvasnikov, O. A. Nesterenko, S. A. Kasumova, A. F. Kachan,			
and N. K. Kovalenko	565	654	
Effect of Chloramphenicol and Erythromycin on the Transforming Activity of Desoxyribonucleic Acid Isolated from <u>Streptococcus Haemolyticus</u> <u>challis</u> — I. M. Tereshin and A. Ya. Rovinskaya	572	661	
Heterokaryosis and Ability of Conidia to Germinate as Related to the Variability of <u>Trichothecium roseum</u> — N. P. Pal'mova and R. A. Maksimova	576	665	
Dissociation of <u>Mycobacterium</u> sp. Strain 69, Producer of a Fibrinolytic Agent — N. S. Egorov and I. P. Smirnova	581	671	
Mutations and Expression of Characters in <u>Actinomyces streptomycini</u> Krass — L. N. Borisova, N. S. Ivkina, L. A. Gomenyuk, and I. A. Rapoport	585	675	
Electron-Microscopic Study of Spore Formation in <u>Micromonospora vulgaris</u> — L. A. Dorokhova, N. A. Agre, L. V. Kalakutskii, and N. A. Krasil'nikov	589	680	
Lysogeny of an <u>Actinomyces herbiferis</u> Culture and Certain Characteristics of Its Actinophages — Ya. I. Rautenshtein, R. L. Gesheva, and S. A. Egorova	594	685	
Influence of Mg²⁺ Cations and Polyamines on the Reproduction of rII^ts Mutants of T4B Bacteriophage under Nonpermissive Conditions — A. A. Zapadnaya and G. F. Nesterova	600	691	
Effect of Lyophilization and High Vacuum on Coliphages — A. A. Imshenetskii, A. M. Lysenko, and S. V. Lysenko	603	694	
Microorganisms in Bottom Deposits of the Caspian Sea — V. I. Bagirov and M. A. Salmanov	606	697	
Microbiological Method of Treating a Petroleum Deposit Containing Highly Mineralized Stratal Waters — V. M. Senyukov, É. M. Yulbarisov, N. N. Taldykina, and E. P. Shishenina	612	705	
Experimental Study of Bacterial Production in Water and Consumption by Daphnia — V. I. Romanenko	617	711	
Methods of Determining the Intensity of Cholesterol Decomposition by Microorganisms — E. F. Efimochkina, T. S. Nazarova, and I. E. Nikitin	621	716	
Use of the Luciferin-Luciferase Method for Determining ATP in Cells of <u>Azotobacter vinelandii</u> — E. I. Milekhina, E. E. Rakheeva, G. G. Sotnikov, and I. D. Ivanov	626	722	
REVIEWS			
V. M. Bogdanov, R. S. Bashirova, K. A. Kirova, I. P. Korneev, E. I. Kostrova, L. M. Petzhikovskaya, A. Ya. Pankratov, and K. A. Svitych. Industrial Microbiology of Food Products — Reviewed by M. E. Beker, É. Ya. Kaleya, M. Zeile, G. K. Diepin'sh, and Yu. O. Yakobson	630	727	
V. M. Bogdanov, R. S. Bashirova, K. A. Kirova, I. P. Korneev, E. I. Kostrova, L. M. Petzhikovskaya, A. Ya. Pankratov, and K. A. Svitych. Industrial Microbiology of Food Products — Reviewed by A. I. Metelkin and O. A. Metelkin	634	730	
Yu. O. Sazykin. Antibiotics as Inhibitors of Biochemical Processes — Reviewed by A. I. Korotyaev	636	731	
V. T. Emtsev. Principles of Microbiology. in: N. A. Bluket and V. T. Emtsev, Botany with the Principles of Plant Physiology and Microbiology (pp. 396-504) — Reviewed by A. I. Metelkin	640	735	

Volume 39, Number 5 September-October, 1970

Extracellular Phosphomonoesterases of Fungi Belonging to the Genus <i>Fusarium</i>		
— S. I. Bezborodova and T. V. Il'ina	643	741
Pentoses and Pentitols as Carbon and Energy Sources for <i>Candida pulcherrima</i>		
— Yu. N. Karasevich	649	748
Enzymes of the Tricarboxylic Acid Cycle in a Culture of <i>Serratia marcescens</i>		
— Li Kim Bang	656	755
Nitrogen Fixation Capacity of Photosynthesizing Bacteria — N. V. Zakhvataeva, I. V. Malofeeva, and E. N. Kondrat'eva	661	761
Kinetic Properties of Glutamine Synthetase from Different Yeasts — V. L. Kretovich, T. G. Generalova, and T. L. Auérman	667	767
Free Nucleotides of Thermophilic and Mesophilic Variants of <i>Micromonospora vulgaris</i>		
— T. N. Evreinova, É. M. Makhmudova, and N. S. Agre	671	771
Dynamics of Various Fractions in the Lipids during the Development of <i>Mycobacterium rubrum</i> and <i>Mycobacterium album</i> — A. T. Donets, N. M. Gerasimova, V. V. Kotelov, and M. N. Bekhtereva	675	776
Dynamics of the Accumulation of Flavins in Cultures of <i>Mycobacterium lacticolum</i> Strain 104 in Media with Various Phosphorus Contents — E. S. Mil'ko and N. P. Ivanova	678	779
Thermophilic Actinomycetes of the Species <i>Micromonospora vulgaris</i> , Active Producers of Amyloytic and Proteolytic Enzymes — L. G. Loginova, I. A. Tsaplina, E. P. Guzhova, E. V. Bolmyanskaya, I. D. Kovalevskaya, and L. M. Seregina	682	784
Effect of High Vacuum on Crystalline Preparations of Catalase, Peroxidase, Cytochrome C, and ATP — A. A. Imshenetskii, S. V. Lysenko, G. G. Sotnikov, and G. D. Gamulya	686	788
Effects of Cortisone, Prednisone, and 20-Dihydroprednisone on Growth of <i>Mycobacterium globiforme</i> 193 — G. B. Ksandopulo	690	792
Influence of Novobiocin on the Oxidative Activity of the Mycelium of Active and Inactive Strains of <i>Actinomyces sphaeroides</i> — N. S. Egorov, E. G. Toropova, and T. N. Morozova	694	797
Lethal Effects of p-Aminobenzoic Acid on <i>Saccharomyces cartilaginosus</i>		
— É. G. Surovtseva	697	800
Isolation and Characterization of Microorganisms that Decompose Uric Acid		
— A. A. Imshenetskii and L. S. Popova	701	805
Isolation of a Lithoheterotrophic Hydrogen-Oxidizing Bacterium — T. N. Zhilina	707	812
Myxobacteria in Cultures of Hydrogen and Co-Oxidizing Organisms — É. U. Sanzhieva	711	817
Identification and Morphological-Cultural Character of Actinomycetes of Antarctica		
— V. A. Tsyganov, Yu. E. Konev, O. P. Kamyshko, I. F. Ryabinin, and L. A. Podolyan	714	821
Determination of Optimum Cultivation Conditions for <i>Aspergillus oryzae</i>		
by Mathematical Planning of Experiments — L. I. Voino, Yu. P. Grachev, and T. A. Sivacheva	719	827
Selection of Optimum Medium for Biosynthesis of Cellulolytic Enzymes		
by <i>Aspergillus terreus</i> 17R by the Steepest Ascent Method — R. P. Zeltin'	724	832
Pigmentary Differentiation of Actinomycetes Classified as <i>Actinomyces galbus</i>		
— Yu. M. Khokhlova, S. N. Mironova, A. I. Korenyako, and N. A. Krasil'nikov	731	840
Pigments of <i>Actinomyces nigriviridis</i> — S. A. Egorova, I. V. Marchenko, N. O. Blinov, and N. A. Krasil'nikov	736	846
Effect of Growth Conditions on Ultrathin Structure of <i>Chlorobium thiosulfatophilum</i>		
— Zh. V. Solov'eva and V. D. Fedorov	739	850
Submicroscopic Organization of <i>Thiobacillus ferrooxidans</i> — A. A. Avakyan and G. I. Karavaiko	744	855

Metabolically Active Spheroplasts of Blue-Green Algae — M. V. Gusev, K. A. Nikitina, and T. G. Korzhenevskaya	752	862
Morphology and Physiology of <u>Rhizopus delamar</u> — V. P. Panov, A. V. Kirsanov, V. S. Grigorov, G. G. Azarova, and A. Ya. Pankratov	758	869
Ultrastructure of <u>Bacillus subtilis</u> Cells Producing Alkaline Phosphatase — T. A. Smirnova and V. M. Kushnarev	761	872
Location and Time of Manifestation of Functional Defect in T4B Phase <u>rII^{ts}</u> Mutants — G. F. Nesterova and A. A. Zapadnaya	765	876
Effect of Some Antitumor Chemotherapeutic Agents on Transmission of the Episomal Resistance Determinant in Enterobacteria — A. Z. Smolyanskaya	770	882
Effect of Herbicides on Nitrifying Bacteria in Sod-Podzolic Soils — A. I. Chunderova and T. P. Zubets	774	887
Quantitative Distribution of Heterotrophic Bacteria in the Southeastern Atlantic Ocean — A. E. Kriss and M. I. Novozhilova	778	892
Determination of Nitrates and Potassium in Culture Medium by Potentiometric Method — S. A. Lirova, E. A. Andreeva, and I. L. Rabotnova	783	898
Utilization of Medium Containing Chitin for Isolation and Quantitative Enumeration of Actinomycetes from Soil — V. D. Kuznetsov and I. V. Yangulova	786	902
Seeding Material Obtained by Submerged Cultivation of <u>Aspergillus candidus</u> — D. Dimitrov, T. A. Petina, F. A. Golovei, and L. A. Martirosova	791	907
A Microselector Attachment for Smooth Movement of the Capillary — É. P. Troshanov and A. V. Mamaev	795	911
BOOK REVIEWS		
Organization and Control in Prokaryotic and Eukaryotic Cells — Reviewed by G. F. Gauze	797	914
A. M. Bezhorodov. The Biosynthesis of Biologically Active Substances of Microorganisms — Reviewed by Yu. O. Sazykin	799	915
S. V. Goryunova, G. N. Rzhanova, and V. K. Orleanskii. Blue-Green Algae (Biochemistry, Physiology, Practical Role) — Reviewed by M. V. Gusev	802	917
M. A. Litvinov. Methods of Investigating Microscopic Soil Fungi — Reviewed by N. A. Cheremisinov and A. I. Fateev	805	920
The Role of Microorganisms in Plant Nutrition and Soil Fertility — Reviewed by L. M. Dorosinskii and V. N. Bylinkina	807	921
CHRONICLES		
Certain Results of Studies at the D. K. Zabolotnyi Institute of Microbiology and Virology of the Academy of Sciences of the Ukrainian SSR — S. N. Moskovets	811	924
Ekaterina Arkad'evna Plevako (Obituary)	815	927

Volume 39, Number 6 November-December, 1970

Litho-Heterotrophic Growth of <u>Hydrogenomonas facilis</u> Z-56 — T. N. Zhilina	817	933
Method of Calculating Amphibolism of Microorganisms Using Hydrogen Bacteria as an Example — T. A. Fedorova	821	937
Optimization of the Cultivation Conditions of <u>Bacillus mesentericus</u> Strain 11-11 Using a Mathematical Model of the Process in the Form of a Power Function — Yu. P. Grachev, A. K. Tubol'tsev, and T. A. Lushchik	828	945
Mechanism of <u>Thiobacillus ferrooxidans</u> Multiplication — G. I. Karavaiko and A. A. Avakyan	833	950
Study of the Chemical Composition of Cells of the Phytoflagellate <u>Astasia longa</u> — M. V. Pakhomova, N. A. Shanina, and G. N. Zaitseva	837	953
"Eutectic Temperature" of Yeast Suspensions during Freezing, Drying, and Lyophilization — M. V. Fateeva, G. A. Kazakov, T. N. Nikitina, I. A. Loginov, and V. N. Oparin	842	958

Some Physiological Characteristics of <i>Mycobacterium laticolum</i> 121 during Growth in a Medium Containing n-Dodecane—N. N. Grechushkina and S. V. Denisova	849	965
Influence of Medium pH and Carbon Dioxide on Assimilation of Some Organic Acids by <i>Scenedesmus quadricauda</i> —N. F. Piskunkova and M. N. Pimenova	854	970
Influence of Medium pH on Production of Amylolytic Enzymes by <i>Aspergillus awamori</i> —R. V. Feniksova and V. G. Ryzhakova	858	974
Growth Inhibition in <i>Bacillus megaterium</i> by H ⁺ and OH ⁻ Ions—Z. V. Sakharova	861	978
Effect of Aeration and Redox Potential of Medium on Biosynthesis of Levorins A and B —V. I. Sukharevich, E. P. Yakovleva, V. A. Tsyganov, and N. N. Shvetsova	864	981
Effect of High Vacuum on ATP Stability in Microorganisms—A. A. Imshenetskii, S. V. Lysenko, and G. G. Sotnikov	869	986
Incorporation of C ¹⁴ -Carbon Dioxide into Dicarboxylic Amino Acids during Chemosynthesis of <i>Hydrogenomonas eutropha</i> Z-1—A. K. Romanova, A. N. Nozhevnikova, I. Ya. Vedenina, and N. G. Doman	872	990
Accumulation of Shikimic Acid by Yeasts in the Presence of p-Aminobenzoic Acid —É. G. Surovtseva	877	996
Conditions of Acetoin Biosynthesis by Cell-Free Extracts of <i>Aerobacter cloacae</i> INMI 30 —A. P. Chulkova, T. B. Kazanskaya, and P. A. Agatov	882	1001
Changes in the Fatty Acid Ratio in the Lipid Composition of <i>Mycobacterium rubrum</i> 874 and <i>Mycobacterium album</i> 88 during Their Growth—N. M. Gerasimova, A. T. Donets, V. V. Kotelev, and M. N. Bekhtereva	886	1005
Study of the Pigments of Green Actinomycetes of the <i>Actinomyces iakyurus</i> — <i>Actinomyces</i> <i>flavovariabilis</i> Group—I. V. Marchenko, S. A. Egorova, N. O. Blinov, A. I. Korenyako, and N. A. Krasil'nikov	890	1010
Induction of Pigment Mutations in <i>Mycobacterium carotenum</i> by N-Methyl-N'-Nitro-N' Nitrosoguanidine—V. P. Zobnina and É. N. Astaf'eva	894	1014
Stability of the Properties of <i>Aspergillus niger</i> Mutants Preserved by Different Methods —E. Ya. Shcherbakova, A. A. Rumba, and L. N. Lanskaya	898	1019
Possibility of Selection of Active Strains of <i>Rhizobium</i> According to the Content of Riboflavin and Cobalamin in Pure Cultures—N. M. Shemakhanova and O. D. Sidorenko	905	1026
Biological Properties of the Melanin-Producing <i>Azotobacter chroococcum</i> 2Y and Its Nonpigmented Variant 2Yb—O. I. Koleshko, N. I. Danil'chik, and L. F. Mizovtsova	909	1030
Comparative Study of Deoxyribonuclease Activity of Pigmented Strains of <i>Serratia</i> <i>marcescens</i> and Their Unpigmented Variants—A. Z. Gareishina, D. V. Yusupova, and M. I. Belyaeva	912	1034
Adaptation of Yeast <i>Candida tropicalis</i> (Lobvinskaya 2) to D-Arabinose—Yu. N. Karasevich	917	1040
New Case of Defective Induction of Prophage—E. I. Golub and V. N. Reshetnikova	921	1046
Certain Properties of a Lysogenic Culture of <i>Actinomyces orientalis</i> —Ya. I. Rautenshtein and L. A. Deschits	925	1051
Reproduction of T4D and T4D _v Phages in Cells of <i>Escherichia coli</i> (Wild Type), and Defective for the System of Dark Repair, and Influence of Caffeine on this Process —V. N. Soifer and Yu. L. Dorokhov	930	1057
Properties of Streptococci Isolated from Milk-Curdling Starters Used in Ceylon —R. A. Kulatunga	939	1067
Effect of Laser Microirradiation on Filamentous Forms of <i>Escherichia coli</i> —M. Ya. Korn and A. A. Chel'nyi	944	1073
Polyploidy in the Unicellular Green Alga <i>Stichococcus</i> sp.—K. V. Kosikov and E. A. Karnaukhova	950	1079
Derivation of Protoplasts from Yeasts of the Genus <i>Candida</i> —A. I. Zaikina and A. I. Lapotyshkina	953	1082
Quantitative Distribution of Heterotrophic Bacteria in the Equatorial-Tropical Zone of the Pacific Ocean Near South America—A. E. Kriss and I. N. Mitskevich	957	1087

Engl./Russ.

Actinomycetes from Genetic Horizons of Estonian Soils—V. D. Kuznetsov and I. V. Yangulova	963	1095
Effect of Freezing Temperature on Survival of Lyophilized Bacteria—M. V. Danilova and V. I. Kudryavtsev	969	1102
Stability of Characteristic Features of Bacteria Stored under Mineral Oil—I. M. Nadirova and V. L. Zemlyakov	973	1106
INDEX		
Author Index, Volume 39, Numbers 1-6, 1970	979	
Tables of Contents, Volume 39, Numbers 1-6, 1970	983	

